

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/032378

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01N1/24 G01N15/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC, COMPENDEX, BIOSIS, IBM-TDB, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 941 899 A (LIU ET AL) 17 July 1990 (1990-07-17)	1-11, 22-33
Y	column 2, line 21 - column 3, line 51 figures 1-3	12-21, 34-39
Y	----- HU 193 716 B (KARPATI, JUDIT, HU; LAKATOS, GUSZTAV, HU) 31 July 1989 (1989-07-31) figures 1-4	12-21, 34-39
A	----- US 4 178 794 A (INDERBITZEN, EMIL R ET AL) 18 December 1979 (1979-12-18) the whole document ----- -/-	1-39

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *&* document member of the same patent family

Date of the actual completion of the international search

14 April 2005

Date of mailing of the international search report

27/04/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 103 534 A (STENGER ET AL) 15 August 2000 (2000-08-15) figures 1,5 column 6, line 53 - column 7, line 45 -----	1-39
A	US 6 517 593 B1 (ROBERTSON LARRY DON ET AL) 11 February 2003 (2003-02-11) the whole document -----	1-39

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Information on patent family members

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 4941899	A	17-07-1990	AU	5387090 A	25-10-1990
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US 4178794	A	18-12-1979	NONE		
US 6103534	A	15-08-2000	NONE		
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